



# TOPSIN<sup>®</sup> M 70WP

## THIOPHANATE-METHYL FUNGICIDE 70% Wettable Powder

**ACTIVE INGREDIENT:**

Thiophanate-methyl (dimethyl [1,2-phenylene]-bis(iminocarbonothioyl))bis[carbamate]\*. . . . 70.0%

**OTHER INGREDIENTS:** . . . . . 30.0%

**TOTAL** . . . . . 100.0%

\*Also known as dimethyl 4, 4'-o-phenylenebis[3-thioallophanate]

TOPSIN is a registered trademark of Nippon Soda Company, Ltd., and is licensed to NISSO TM LLC, and is covered by one or more of the following U.S. Patents: 3,769,308; 3,856,847; 4,020,095; and 4,029,813.

### KEEP OUT OF REACH OF CHILDREN CAUTION

**FIRST AID**

**If on skin or clothing:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**If inhaled:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

**If in eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. Contact the Rocky Mountain Poison Control Center at 1-866-673-6671 for emergency medical treatment information.

EPA Registration No. 73545-11-70506

EPA Establishment No. 61842-CA-001

Batch/Lot No. \_\_\_\_\_

### NET WEIGHT: 2 Pounds (0.91 Kgs.)

Sold by:

**United Phosphorus, Inc.**

630 Freedom Business Center, Suite 402

King of Prussia, PA 19406

1-800-438-6071 • www.upi-usa.com

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

HARMFUL IF ABSORBED THROUGH SKIN OR INHALED. AVOID BREATHING DUST OR SPRAY MIST. CAUSES MODERATE EYE IRRITATION. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers supporting dip treatment must wear:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves (such as or made out of any waterproof material, selection category A),
- Chemical-resistant footwear plus socks,
- Chemical-resistant apron.

All other mixers, loaders, applicators, and handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves (such as or made out of any waterproof material, selection category A).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Do not apply aerially or through chemigation equipment to any food crops.

#### USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water or areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply aerially or through chemigation equipment to any food crops.

Do not apply when wind speed favors drift beyond the area intended for treatment.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI).

The REI for each crop is listed in the directions for use associated with that crop.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves made from any waterproof material,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for overhead exposures.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE:** Store in the original container in a dry area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### GENERAL INSTRUCTIONS AND INFORMATION

Apply Topsin M 70WP with ground equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of Topsin M 70WP to partially filled tank agitated by mechanical or hydraulic means, and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. United Phosphorus, Inc. does not recommend tank mixes with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rate under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules.

Use the LBS./ACRE rate for concentrate sprays (less than 400 gallons on apples and pears, less than 300 gallons on stonefruit). Use the LB./100 GALS. rate for dilute ground applications. Higher spray volume will generally result in better coverage and better disease control.

Use a minimum spray volume of 20 gallons/A for row crops and 30 gallons/A for tree and vine crops. Lack of control when using below minimum spray volumes is solely at the risk of the applicator/user, including use of electrostatic sprayers.

**Use on all labeled non-bearing tree fruit, tree nuts, and grapes:** Topsin M 70WP may be used for control of the diseases listed on the label for these crops during the non-bearing years of new plantings, and on nursery stock. All use directions and limitations must be followed, except for the PHI, which is not applicable for non-bearing stock. Begin applications as disease is first observed or expected. Tank mixing with a protectant fungicide is strongly recommended for resistance management.

For crops without labeled uses of thiophanate-methyl, observe a 30-day plantback restriction.

**RESISTANCE MANAGEMENT:** To avoid the development of tolerant or resistant strains of fungi, Topsin M 70WP should always be tank-mixed with a fungicide of different chemistry, and/or a fungicide of different chemistry should be alternated with Topsin M 70WP. **DO NOT USE PRODUCTS CONTAINING THIABENDAZOLE OR OTHER PRODUCTS CONTAINING THIOPHANATE-METHYL IN COMBINATION, IN ROTATION, OR AS A SUBSTITUTE FOR TOPSIN M 70WP AS THEY ARE OF SIMILAR CHEMISTRY AND WILL CONTRIBUTE TO THE DEVELOPMENT OF RESISTANCE.** If after using Topsin M 70WP as recommended, and the treatment is not effective, a tolerant or resistant strain of fungi may be present. Discontinue the use of Topsin M 70WP for at least one season. As long as these precautions are followed, Topsin M 70WP can be useful for disease control, even if resistant strains are present.

### MIXING INSTRUCTIONS

If other materials are to be added to the tank, especially fertilizers high in nitrogen or boron, wait until the Topsin M 70WP is fully dissolved before adding them. Once all materials have been added, fill the tank with the remaining volume of water. Maintain continuous agitation at all times, and use the spray suspension as soon as possible.

CROP/ RESTRICTIONS	DISEASES	LBS./ ACRE	LB./ 100 GALS.	REMARKS/ RESTRICTIONS
Almonds Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 3 days.	Brown Rot Blossom Blight (Monilinia) Scab (Cladosporium) Jacket Rot (Monilinia, Sclerotinia, Botrytis) Leaf Blight (Seimatosporium)	1 - 1 1/2		Apply as needed between pink bud and petal fall. Topsin M 70WP may be applied alone at pink bud for Brown Rot control. For all other applications, Topsin M 70WP should be applied with a contact fungicide, such as a ziram product (e.g. Ziram 76DF) for broad spectrum control and resistance management. Do not apply more than 3 lbs. of product (2.1 lbs. a.i.)/A/year. Pre-harvest interval: 1 day
Apples Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days.	Apple Scab (Venturia) Black Pox* (Helminthosporium papulosum) Flyspeck (Zygophiala) Powdery Mildew (Podosphaera) Sooty Blotch (Gloeodes) Black Rot (Botryosphaeria obtusa) Brooks Fruit Spot (Mycosphaerella) White Rot* (Botryosphaeria dothidia)	3/4 - 1 (in CA use 1 1/2)	1/5 - 1/4	Apply at 5 to 10-day intervals from green tip through petal fall; continue at 7 to 14-day intervals in cover sprays. Do not apply more than 4 lbs. of product (2.8 lbs. a.i.)/A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.
Pre-Harvest use to control Post-Harvest Diseases on Apples				
	Storage Rot Blue Mold (Penicillium expansum) Gray Mold (Botrytis cinerea) Bulls-Eye Rot (Neofabraea spp.)	1		Apply as a pre-harvest spray within 2 weeks to 3 days of harvest. Thorough coverage of the fruit is required. Application closer to harvest may provide better efficacy. For resistance management, do not use a benzimidazole fungicide (i.e. Mertect®) post-harvest following Topsin M 70WP pre-harvest application. Application of a non-benzimidazole post-harvest fungicide such as Penbotect™ or Scholar® will provide additional protection from post-harvest diseases. Do not apply more than 4 lbs. of product (2.8 lbs. a.i.)/A/year. Pre-harvest interval: 1 day

\* Not for this use in California  
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CROP/ RESTRICTIONS	DISEASES	LBS./ ACRE	LB./ 100 GALS.	REMARKS/ RESTRICTIONS
Beans, dry and succulent Including: Lima bean Snap bean Kidney bean Mung bean Navy bean Pinto bean Wax bean Broad bean Fava bean Asparagus bean Blackeyed pea Cowpea Sweet lupine White lupine White Sweet lupine Grain lupine Chick pea Garbanzo bean Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours for succulent beans and 3 days for dry beans.	White Mold (Sclerotinia) Gray Mold (Botrytis) Anthracnose (Colletotrichum)	1 1/2 - 2  <b>OR</b> 1 - 1 1/2		For one application: Apply when 100% of plants have at least one open bloom or when conditions are favorable for disease development. <b>OR</b> For multiple applications: Make the first application when 10% to 30% of plants have at least one open bloom and follow with sequential applications on a 4 to 7-day interval. Apply prior to the development of disease for best results. Do not apply more than 4 lbs. of product (2.8 lbs. a.i.)/A/year. Pre-harvest interval: <b>California only</b> , 14 days for succulent beans, 28 days for dry beans and lima beans. Pre-harvest interval: <b>all other States</b> , 14 days for succulent beans and lima beans, 28 days for dry beans.
Canola, Crambe In North Dakota, Minnesota, and Montana (east of Interstate 15 only) Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	White Mold Sclerotinia Stem Rot (Sclerotium sclerotiorum)	1-2 in a single application <b>OR</b> 1 per application when applying twice		Apply at 20% to 50% flowering for single application. <b>OR</b> Apply twice with the first application at 20% to 30% flowering and the second application at 40% to 50% flowering. Pre-harvest interval: 40 days Do not apply more than 2 lbs. of product (1.4 lbs. a.i.)/A/year. Thorough coverage of the flowers, stems, and branches is essential for control of White Mold.
Cucurbits: Cantaloupe, Casaba, Cucumbers, Melons, Pumpkins, Summer and Winter Squash, and Watermelons Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	General Information			Do not apply more than 3 lbs. of product (2.1 lbs. a.i.)/A/year from any combination of application timings. Pre-harvest interval: 1 day Topsin M 70WP can be used in a tank mix with Penncozeb® (mancozeb) or chlorothalonil for additional disease control and resistance management. Follow resistance management guidelines under Directions for Use.
	Acremonium/ Cephalosporium Hypocotyl Rot	1/2		Apply in-furrow, on top of the seeds at planting. Do not use less than 10 gallons of water per acre.
	Anthracnose* (Colletotrichum) Gummy Stem Blight* (Didymella) Powdery Mildew (Erysiphe, Sphaerotheca, Podosphaera) Target Spot* (Corynespora)	1/2		Begin applications when plants begin to run or when disease first appears, and repeat at 7 to 14-day intervals or as needed. For Target Spot, use at 7-day intervals as needed.
	Belly Rots* (Rhizoctonia, Fusarium)	1/2		Apply in sufficient volume to allow runoff to the soil. Will not control Pythium or Phytophthora.
Garlic (clove treatment)	Penicillium Clove Rot		1	Completely immerse garlic cloves in suspension for at least 5 minutes. Continuously agitate the solution tank by hydraulic or mechanical means. After treatment, remove cloves from solution and drain. Dry cloves after treatment and prior to planting.

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CROP/ RESTRICTIONS	DISEASES	LBS./ ACRE	LB./ 100 GALS.	REMARKS/ RESTRICTIONS
Grapes Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days.	General Information			Do not apply more than 6 lbs. of product (4.2 lbs. a.i./A/year. Pre-harvest interval: 7 days Follow resistance management guidelines under Directions for Use.
	<b>WEST OF THE ROCKY MOUNTAINS:</b> Bunch Rot (Botrytis) Powdery Mildew (Uncinula)	1 - 1 1/2		Apply at first bloom and repeat 14 days later or as needed if severe disease conditions exist. Make an additional application 3 to 4 weeks before harvest or when sugar begins to build; repeat 14 days later if conditions favorable for disease persist. For Powdery Mildew continue applications through the season. Use in combination or rotation with a sulfur product such as Microthiol® Dispers® and/or other systemic fungicides.
	<b>EAST OF THE ROCKY MOUNTAINS:</b> Bitter Rot (Melanconium) Black Rot (Guignardia) Powdery Mildew (Uncinula) Phomopsis Cane and Leaf Spot (Phomopsis)	3/4 - 1 1/2		Apply when foliage first develops and repeat at 14 to 21-day intervals or as needed.
	Bunch Rot (Botrytis)	1 - 1 1/2		Apply at first bloom and repeat 14 days later or as needed if severe disease conditions exist. Make an additional application 3 to 4 weeks before harvest or when sugar begins to build; repeat 14 days later if conditions favorable for disease persist. Do not use where resistant strains of Botrytis are present.
Onions* Garlic (In furrow) Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 3 days.	White Rot (Sclerotium cepivorum)	2 broadcast		Spray directly into the open furrow at the time of planting seed, sets or bulbs. Not for this use through any type of irrigation system. Do not apply more than 2 lbs. of product (1.4 lbs. a.i./A/year.
Peanuts Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	Early Leaf Spot (Cercospora) Late Leaf Spot (Cercosporidium) Rust (Puccinia) Limb Rot (Rhizoctonia) Web Blotch (Ascochyta)	1/2		Begin applications when disease first appears and repeat at 14-day intervals as needed. Do not apply more than 2 lbs. of product (1.4 lbs. a.i./A/year. Pre-harvest interval: 14 days Topsin M 70WP should not be used alone. Use only in combination with a non-benzimidazole fungicide such as Penncozeb® 75DF (mancozeb) at 1 1/2 lbs. per acre or chlorothalonil. Follow resistance management guidelines under Directions for Use.
	Pear Scab (Venturia) Sooty Blotch (Gloeodes) Flyspeck (Zygophiala) Powdery Mildew (Podosphaera) Leaf Spot (Fabraea)	1	1/4	Apply at 7 to 10-day intervals from green tip through petal fall; continue at 7 to 14-day intervals in the cover sprays. Do not apply more than 4 lbs. of product (2.8 lbs. a.i./A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.
Pears Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days.	Pre-Harvest use to control Post-Harvest Diseases on Pears			
	Storage Rot Blue Mold (Penicillium expansum) Gray Mold (Botrytis cinerea) Bulls-Eye Rot (Neofabraea spp.)	1		Apply as a pre-harvest spray within 2 weeks to 3 days of harvest. Thorough coverage of the fruit is required. Application closer to harvest may provide better efficacy. For resistance management, do not use a benzimidazole fungicide (i.e. Mertect®) post-harvest following Topsin M 70WP pre-harvest application. Application of a non-benzimidazole post-harvest fungicide such as Penbotect™ or Scholar® will provide additional protection from post-harvest diseases. Do not apply more than 4 lbs. of product (2.8 lbs. a.i./A/year. Pre-harvest interval: 1 day

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CROP/ RESTRICTIONS	DISEASES	LBS./ ACRE	LB./ 100 GALS.	REMARKS/ RESTRICTIONS
Pecans Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 3 days.	Brown Spot (Cercospora) Downy Spot (Mycosphaerella) Liver Spot (Gnomonia) Powdery Mildew (Microsphaera) Scab (Fusicladium) Stem End Blight (Botryosphaeria) Zonate Leaf Spot (Cristulariella)	1		Begin applications when first leaves are showing and repeat at 3 to 4-week intervals until shuck split. Do not apply after shuck split. Do not apply more than 3 lbs. of product (2.1 lbs. a.i./A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.
	Pistachios Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 3 days.	Shoot Blight (Botrytis, Botryosphaeria)	1 1/2 - 2	Apply at bloom. Apply in a minimum of 100 gallons per acre by ground. Do not apply more than 2 lbs. of product (1.4 lbs. a.i./A/year.
	Potatoes Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days.	White Mold (Sclerotinia sclerotiorum)	1 - 1 1/2	Make first application just prior to row closure. Repeat the application within 7 to 14 days and at 7 to 14-day intervals if conditions for disease development are favorable. Thorough coverage of the flowers, stems, and branches is essential for disease control. Do not apply more than 4 lbs. of product (2.8 lbs. a.i./A/year. Pre-harvest interval: 21 days May be tank mixed with Penncozeb (mancozeb) for Early and Late Blight control.
Soybeans Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	General Information			Do not apply more than 2 lbs. product (1.4 lbs. a.i./A/year. Pre-harvest interval: 21 days Do not graze or feed treated vines or hay to livestock.
	Anthracnose (Colletotrichum) Brown Spot (Septoria) Frogeye Leaf Spot (Cercospora) Pod and Stem Blight (Diaporthe, Phomopsis) Purple Seed Stain (Cercospora)	1/2 - 1		Apply from full bloom to when pods are 1/8" to 1/4" in length. Make a second application 14 to 21 days later. Do not make the second application later than 14 days after pods average 1/4" in length or when beans form in the pod. Use the high rate under severe disease pressure. FOR SEED BEANS ONLY---For seed quality, make a single application at the high rate (1 lb. per acre) when beans form in the pod.
	White Mold (Sclerotinia)	3/4 - 1		Make one application at early bloom (R-1 to R-2 stage) followed by a second application 7 to 14 days later if conditions are favorable for continued disease pressure. Thorough coverage of the flowers, stems, and branches is essential for disease control.
	Aerial Blight (suppression)	1		Make initial application when disease threatens and repeat 14 to 21 days later if needed.
Stone Fruit Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days.	General Information			Do not apply more than 4 lbs. of product (2.8 lbs. a.i./A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.
- Apricots	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1 1/2 (in CA use 1 1/2)	1/3 - 1/2	Apply at early bloom (red bud). Make a second application at full bloom. If needed, under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.

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CROP/ RESTRICTIONS	DISEASES	LBS./ ACRE	LB./ 100 GALS.	REMARKS/ RESTRICTIONS
- Cherries Sweet and Sour	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1 1/2 (in CA use 1 1/2)	1/3 - 1/2	Apply at early bloom (early popcorn). Make a second application at full bloom. If needed under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
	Cherry Leaf Spot (Coccomyces)	1 1/8 - 1 1/2	3/8 - 1/2	Applications may be made at petal fall or before (when leaves first unfold) and at first, second, and third cover at 10 to 14-day intervals and one spray 14 to 21 days after harvest.
	Powdery Mildew (Podosphaera, Sphaerotheca)	1 - 1 1/2 (in CA use 1 1/2) <b>PLUS</b> 1 1/8 - 1 1/2	1/3 - 1/2 <b>PLUS</b> 3/8 - 1/2	Apply at early bloom (early popcorn). Make a second application at full bloom. <b>PLUS</b> Apply at shuck fall and first cover.
- Nectarines	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1 1/2 (in CA use 1 1/2)	1/3 - 1/2	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. If needed under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
- Peaches	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1 1/2 (in CA use 1 1/2)	1/3 - 1/2	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. If needed under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
	Peach Scab (Cladosporium)	1 - 1 1/2 (in CA use 1 1/2) <b>PLUS</b> 1 1/8 - 1 1/2	1/3 - 1/2 <b>PLUS</b> 3/8 - 1/2	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. <b>PLUS</b> Apply at shuck split and at first cover sprays.
- Plums and Prunes	Brown Rot Blossom Blight Fruit Brown Rot (Monilinia)	1 - 1 1/2 (in CA use 1 1/2)	1/3 - 1/2	Apply at early bloom (green tip). Make a second application at full bloom. If needed under severe disease pressure, apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.
	Black Knot (Dibotryon)	1 - 1 1/2 (in CA use 1 1/2)	1/3 - 1/2	Apply at pre-bloom, petal fall, and at first, second, or third cover sprays at 10 to 14-day intervals.
	Leaf Spot (Coccomyces)	1 - 1 1/2 (in CA use 1 1/2)	1/3 - 1/2	Applications may be made at petal fall, shuck split, and at first, second, and third cover sprays at 10 to 14-day intervals and one spray 14 to 21 days after harvest.
Strawberries Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	General Information			Do not apply more than 4 lbs. of product (2.8 lbs. a.i.)/A/year. Pre-harvest interval: 1 day Follow resistance management guidelines under Directions for Use.
	Crown Rot* (Colletotrichum spp.) Suppression only	3/4 - 1		Begin applications after establishment of the transplants and continue through first bloom at 10 to 14-day intervals. Use the high rate if the fields have a history of Colletotrichum crown rot and/or conditions are favorable for development of the disease. Will not control Phytophthora species.
	Fruit Rot (Botrytis) Leaf Blight (Dendrophoma) Leaf Scorch (Diplocarpon) Powdery Mildew (Sphaerotheca)	3/4 - 1		Begin applications at early bloom and continue at 7 to 10-day intervals. Use the higher rate under conditions of severe disease pressure.

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(continued)

CROP/ RESTRICTIONS	DISEASES	LBS./ ACRE	LB./ 100 GALS.	REMARKS/ RESTRICTIONS
Sugar Beets Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	General Information			Do not apply more than 3 lbs. of product (2.1 lbs. a.i.)/A/year. Pre-harvest interval: 21 days Follow resistance management guidelines under Directions for Use.
	Cercospora Leaf Spot (Cercospora)	1/2 - 1		Apply when conditions become favorable for disease development before the disease appears and follow with a non-benzimidazole fungicide within 14 days of application or as needed. Topsin M 70WP should be tank mixed with a protectant fungicide such as Penncozeb® or Super Tin® when resistant strains of Cercospora are present in the field. For areas east of the Rocky Mountains: Do not make more than one application of Topsin M 70WP per season for Cercospora Leaf Spot.
	Powdery Mildew (Erysiphe)	1/2 - 1		Apply as soon as disease symptoms appear and follow with a non-benzimidazole fungicide at a 14-day interval or as needed. Topsin M 70WP can be tank mixed with sulfur products such as Microthiol® Disperss® at 5 to 10 lbs./A for additional disease control and resistance management.
Triticale and Fall-seeded Wheat <b>For this use in Idaho, Oregon, and Washington ONLY</b> Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.	Foot Rot, Strawbreaker, Eye Spot (Pseudocercospora)	1		Apply Topsin M 70WP at the rate indicated in a single application by ground after tillering but before stem elongation has begun. Use sufficient water to obtain thorough coverage. Do not apply more than 1 lb. of product (0.7 lb. a.i.)/A/year. Do not cut for hay within 90 days of application. Do not allow livestock to graze in treated areas before harvest.

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## DIRECTIONS FOR USE ON CONIFERS (Not for this use in California)

### Conifers foliar treatment

CROP	DISEASE	RATE LB./A, (MINIMUM GALLONAGE)	REMARKS
Conifers (Pine) Austrian Red Scots Christmas Trees	Tip Blight (Diplodia)	1 lb./A (100 gals./A)	Apply at bud break. Repeat 10 to 14 days later, just before needles emerge from sheath; repeat again 10 to 14 days after needle emergence. Do not apply more than 3 lbs. of product (2.1 lbs. a.i.)/A/year.
Conifers (Fir) Douglas	Swiss Needle Cast (Phaeocryptopus) Rhabdocline Needle Cast	1 lb./A (50 gals./A)	Apply initially in early May. Repeat at 4-week intervals. Do not apply more than 5 lbs. of product (3.5 lbs. a.i.)/A/year.
- Add a spreader/sticker to improve coverage. - Use minimum gallonage with mist-blower types of sprayers and higher gallonage with conventional sprayers. - Do not graze livestock in treated areas. - Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.			

### Conifers seedling root treatment

CROP	DISEASE	RATE LB./A	REMARKS
Conifers Longleaf	Brown Needle Blight (Scirrhia)	1 oz. product per 9.5 oz. dry Kaolinite clay for seedling roots	Wet seedling roots in clean water, then apply Topsin M 70WP/Kaolinite mixture to wet roots. Do not apply mixture to seedling foliage.
Conifers Loblolly Longleaf Slash	Fusarium and Rhizoctonia Root Rot	2 oz. product per 50 oz. Kaolinite clay, plus enough water to make a slurry	Thoroughly cover seedling roots with Topsin M 70WP/Kaolinite slurry. Do not apply mixture to seedling foliage.

- During treatment, avoid excessive drying of roots or exposure to temperatures greater than 90°F or less than 32°F.  
- Topsin M 70WP does not control Pythium or Phytophthora.  
- Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**EMERGENCY TELEPHONE NUMBERS:**

**CHEMTREC: (800) 424-9300**

**MEDICAL: (866) 673-6671 Rocky Mountain Poison Control Center**

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READ BEFORE USING PRODUCT**

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